PUMP SCHEDULE

MARK	SERVICE	MOUNTING	FLOW (GPM)	HEAD (FT)	MIN. HP	RPM	V/PH	VFD	NOTES
								(Y/N)	
P1	HEATING WATER	BASE MOUNTED	110	70	5	1,760	460/3	Υ	C-J
P2	HEATING WATER	BASE MOUNTED	110	70	5	1,760	460/3	Υ	C-J
BP1	BOILER CIRCULATION	VERTICAL INLINE	46	23	1/2	1,800	115/1	N	A,B,D
BP2	BOILER CIRCULATION	VERTICAL INLINE	46	23	1/2	1,800	115/1	N	A,B,D

NOTES:

- A. SUPPORT PUMP FROM FLOOR WITH VERTICAL SUPPORTS INDEPENDENT FROM PIPING.
- B. BOILER CIRCULATION PUMP POWERED FROM BOILER.
- C. PROVIDE VFD AND BACNET CONTROLS.
- D. PUMP MOTOR SHALL BE NON-OVERLOADING THROUGHOUT THE FULL RANGE OF THE PUMP CURVE.
- E. PUMPS AND VFD'S INSTALLED IN PARALLEL CONFIGURATION FOR 100% REDUNDANCY FOR PUMPS AND VFD'S.
- F. PROVIDE END-SUCTION PUMP, ISOLATION VALVES, AND SUCTION DIFFUSER.
- G. PUMP CONTROLS SHALL CYCLE LEAD AND STANDBY PUMPS AND VFDS DAILY.
- H. FULLY GROUT PUMP WITH NON-SHRINK GROUT.
- I. PROVIDE WITH SPRING ISOLATED MOUNTING PADS.
- J. PROVID GAGE AND GAGE COCKS (SUCTION TO DISCHARGE) AND FLEXIBLE PIPE CONNECTORS.

NATURAL GAS HOT WATER BOILER SCHEDULE

MARK	MIN. OUTPUT	MIN. EFF.	FLOW	EWT	LWT	MAX. WPD	BURNER	ELECTRICAL		WEIGHT	NOTES	
	(MBH)	(%)	(GPM)	(°F)	(°F)	(FT HD)	TYPE	V/PH	MCA	MOCP	LBS	
B1	470	94	46	160	180	23	MODULATING	120/1	10.5	20	310	A-D
B2	470	94	46	160	180	23	MODULATING	120/1	10.5	20	310	A-D

NOTES:

- A. BOILER BURNER TRIM AND CONTROLS TO MEET LOCALLY ADOPTED ASME CSD-1 REQUIREMENTS.
- B. PROVIDE 4" CONCRETE HOUSEKEEPING PAD.
- C. PROVIDE DISCONNECT SWITCH.
- D. PROVIDE MANUFACTURER'S VERTICAL CONCENTRIC VENT KIT.

APENG	APDIR	Drawing Title	REPLACE BOIL ASSOCIATED S	Project Number 564-19-109 Building Number 44	Engineering Service	
Bar Measures 0 1" one inch or not to scale! custom va form 08-6231B OCT13	APSER	Location Drawn WGG	MENTAL Scale: NTS	HEALTH CLINIC Date 10-31-2013	Drawing Number SKETCH	VETERANS HEALTH CARE SYSTEM OF THE OZARKS